

In the Abstract of the disclosure:

Replace the following Abstract for the present one:

-- Abstract of the Disclosure

In a SFN cellular broadcast system, a system for implementing a bidirectional personalized channel with subscribers, comprising: A. a unit for allocating a first group of subcarriers to the broadcast transmission and a second group of subcarriers to the personalized channels; B. a unit for reducing interference in the broadcast channel using an equalizer; and C. a unit for reducing interference in the personalized channel using a controlled allocation of subcarriers in the second group to each subscriber. In a broadcast SFN system using OFDM transmission from a base station to subscriber units, a system for achieving a bi-directional channel comprising a transmitting unit in the subscriber units for a transmission of signals orthogonal to the signals transmitted from the base station, and a receiving unit in the base station for receiving the orthogonal signals.--